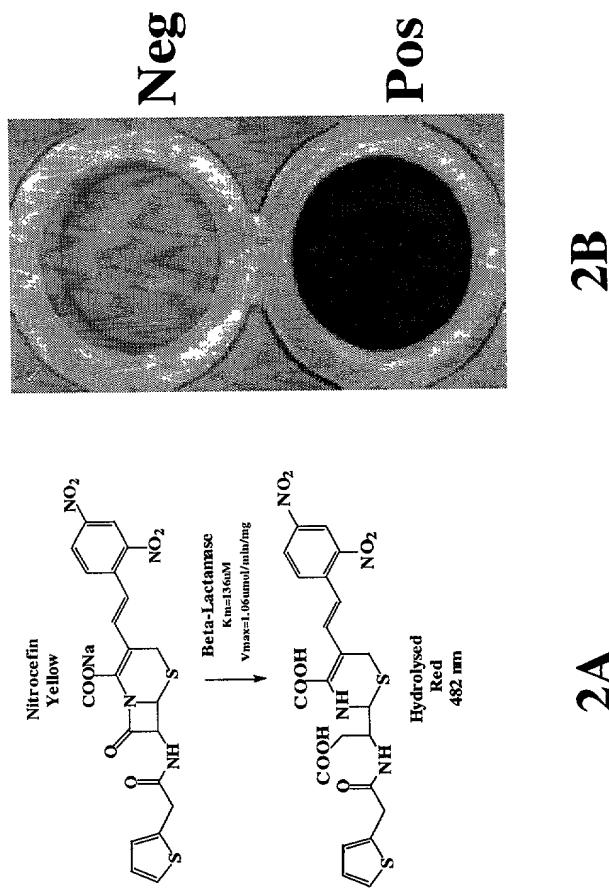


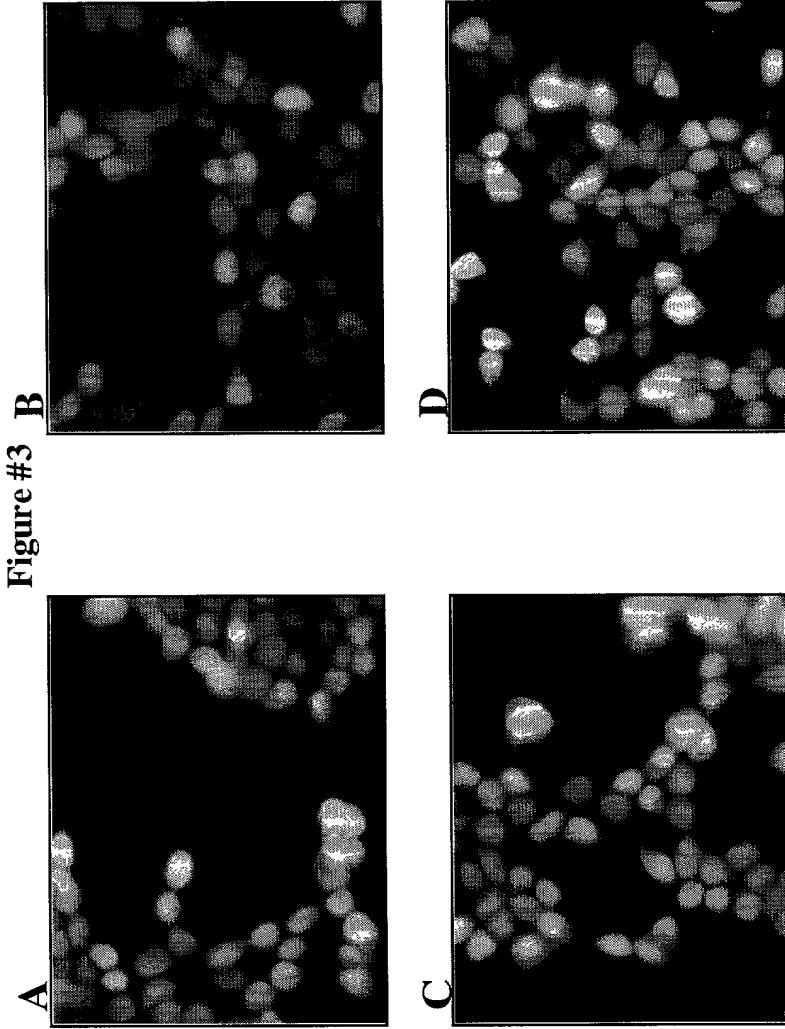
**Figure 1.**



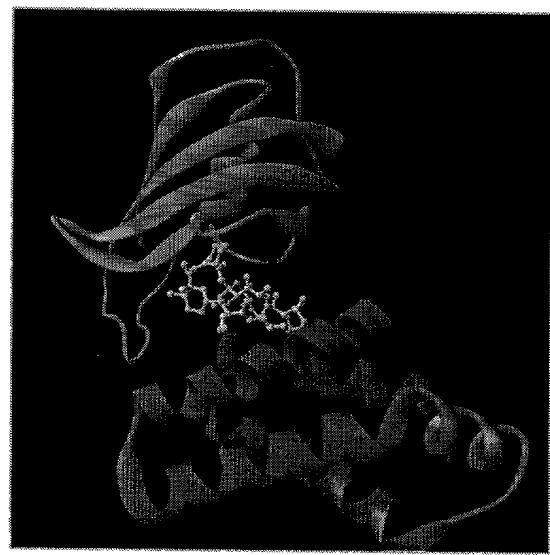
- Family of enzymes that cleave penicillins and cephalosporins very efficiently
- A well characterised isoform is the 29 kD TEM-1 Beta-lactamase
  - 3D structure
  - Hydrolysis mechanism
  - Substrates and inhibitors
- Plasmid encoded ampicillin resistance gene from *E. coli*

**Figure #2**

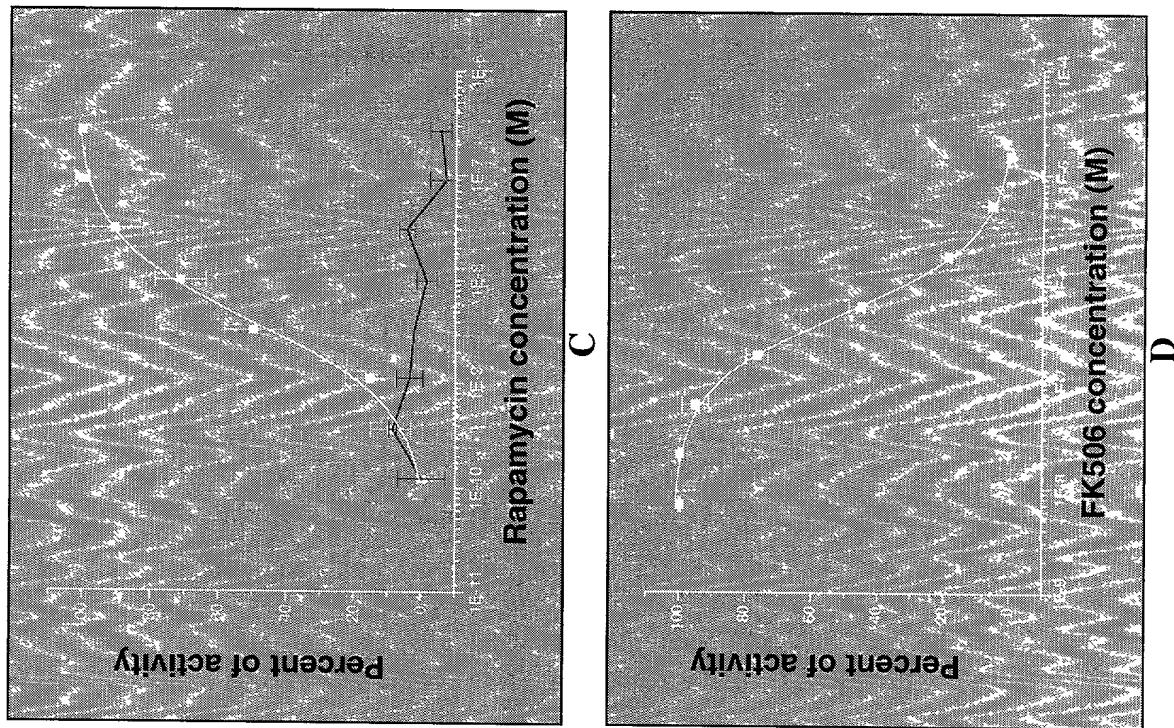
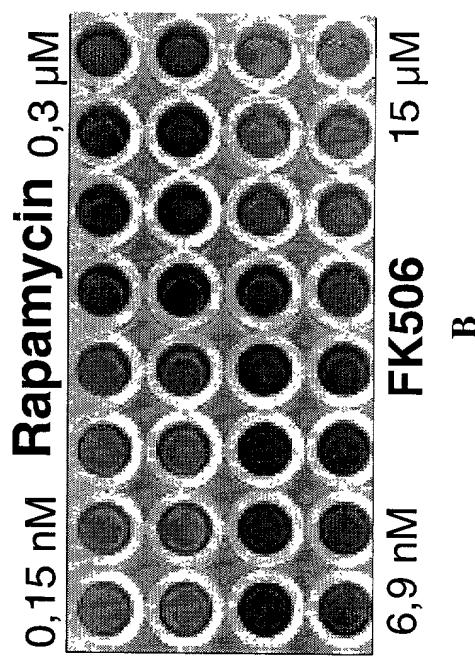




## FKBP/FRB Domain Figure #4



A



C

D